

**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A stereophonic sound field reproducing apparatus for reproducing a stereophonic sound field, the apparatus comprising:

a first sound wave output unit to be positioned in the vicinity of a first position in the vicinity of a first ear of a user;

a second sound wave output unit to be positioned in the vicinity of a second position in the vicinity of the first ear of the user;

a third sound wave output unit to be positioned in the vicinity of a third position in the vicinity of a second ear of the user;

a fourth sound wave output unit to be positioned in the vicinity of a fourth position in the vicinity of the second ear of the user, wherein each sound wave output unit is configured to receive a signal and to output a sound wave; and

a first signal processing unit configured to correct a first signal to be supplied to the first sound wave

output unit based on a cross-talk component between the second sound wave output unit and the first position,

a second signal to be supplied to the second sound wave output unit based on a cross-talk component between the first sound wave output unit and the second position,

a third signal to be supplied to the third sound wave output unit based on a cross-talk component between the fourth sound wave output unit and the third position,

a fourth signal to be supplied to the fourth sound wave output unit based on a cross-talk component between the third sound wave output unit and the fourth position.

~~a plurality of sound wave output units arranged around each ear of a user at the time of using, each of the sound wave output unit receives signals and outputs sound waves; and~~

~~a first signal processing unit which processes signals to be supplied to the sound wave output units to correct the signal based on characteristics between the sound wave output units and the ear of the user,~~

~~wherein the characteristics include cross talk components at a plurality of positions between the ear of the user and the sound wave output units.~~

2. (Previously Presented) The stereophonic sound field

reproducing apparatus according to claim 1, further comprising a holding unit, to be attached to a head of the user at the time of using, which holds the sound wave output units at the circumference of the head of the user.

3. (Canceled)

4. (Previously Presented) The stereophonic sound field reproducing apparatus according to claim 1, further comprising a plurality of detection units, arranged in positions or their vicinities where a relationship with a head of human body or a head of simulation units simulating human body is the same as a relationship between the head of the user and the positions at the time of recording, which detect a sound field and generate signals to be supplied to the sound wave output units.

5. (Previously Presented) The stereophonic sound field reproducing apparatus according to claim 1, further comprising a second signal processing unit which executes a process on the signals to be supplied to the sound wave output units using characteristics from a position where a sound image is fixed to the positions between the ears of the users and the sound wave output units.

6. (Currently Amended) A—The stereophonic sound field reproducing apparatus according to claim 1, further comprising:

a fifth sound wave output unit to be positioned in the vicinity of a fifth position in the vicinity of the first ear of the user;

a sixth sound wave output unit to be positioned in the vicinity of a sixth position in the vicinity of the first ear of the user;

a seventh sound wave output unit to be positioned in the vicinity of a seventh position in the vicinity of the second ear of the user;

an eighth sound wave output unit to be positioned in the vicinity of an eighth position in the vicinity of the second ear of the user, wherein

each sound wave output unit is configured to receive a signal and to output a sound wave, and

for reproducing a stereophonic sound field, the apparatus comprising:

a plurality of sound wave output units arranged around a head of a user at the time of using, each of the sound wave output unit receives signals and outputs sound waves; and

a first signal processing unit which processes signals to be

~~supplied to the sound wave output units so as to correct the signal based on characteristics between the sound wave output units and the head of the user,~~

~~wherein at least eight sound wave output units are provided, the eight sound wave output units are arranged in the vicinity of the ears of the user in such a manner that at least four sound wave output units are provided in the vicinity of each ear,~~

~~the four sound wave output units provided in the vicinity of each ear are provided in such a manner that they are positioned at apexes of a triangular pyramid, and~~

~~wherein the characteristics include cross talk components.~~

7. (Previously Presented) The stereophonic sound field reproducing apparatus according to claim 1, wherein the first signal processing unit corrects characteristics between all of the sound wave output units and the head of the user and characteristics including cross-talk components at a plurality of positions between the ear of the user and the sound wave output units.

8. (Currently Amended) A—The stereophonic sound field reproducing apparatus according to claim 1, wherein for

reproducing a stereophonic sound field, the apparatus comprising:  
a plurality of sound wave output units arranged around a head of a user at the time of using, each of the sound wave output unit receives signals and outputs sound waves; and  
a first signal processing unit which processes signals to be supplied to the sound wave output units to correct the signal based on characteristics between the sound wave output units and the head of the user,

wherein, out of the sound wave output units, a desired number of sound wave output units are provided in the vicinity of one ear of the user and the remaining sound wave output units are provided in the vicinity of the other ear, and

the first signal processing unit includes,

a ~~third~~ second signal processing unit which corrects characteristics between all the sound wave output units corresponding to the ~~one~~ first ear and the head of the user; and

a ~~fourth~~ third signal processing unit which corrects characteristics between all the sound wave output units corresponding to the ~~other~~ second ear and the head of the user,  
and

the ~~third~~ second and ~~fourth~~ third signal processing units execute the signal process simultaneously, and

wherein the characteristics include cross-talk components.

9. (Cancelled)

10. (Previously Presented) The stereophonic sound field reproducing apparatus according to claim 1, wherein each of the plurality of sound wave output units are arranged around each ear of the head of the user based on a position of a plurality of corresponding sound input units.

11-14. (Cancelled)

15. (Previously Presented) The stereophonic sound field reproducing apparatus according to claim 1, wherein the cross-talk components are created by the sound wave output units.